

DEPARTMENT of ENVIRONMENTAL SERVICES
Water Supply & Pollution Control Division - Biology Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: DINSMORE POND	Lake Area (ha):	7.69
Town: HARRISVILLE	Maximum depth (m):	2.5
County: Cheshire	Mean depth (m):	0.7
River Basin: Merrimack	Volume (m ³):	51000
Latitude: 42°55'47" N	Relative depth:	0.7
Longitude: 72°00'31" W	Shore configuration:	2.24
Elevation (ft): 930	Areal water load (m/yr):	462.0
Shore length (m): 2200	Flushing rate (yr ⁻¹):	694.0
Watershed area (ha): 6668.5	P retention coeff.:	0.01
% watershed ponded: 8.1	Lake type:	natural

BIOLOGICAL:

13 February 1997

22 August 1996

DOM. PHYTOPLANKTON (% TOTAL)	#1	SPARSE - NO DOMINANT	TABELLARIA 55%
	#2		
	#3		ALL ALGAE SPARSE
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)			1.97
DOM. ZOOPLANKTON (% TOTAL)	#1	SPARSE - NO DOMINANT	DAPHNIA 66%
	#2		KERATELLA 34%
	#3		
ROTIFERS/LITER		2	15
MICROCRUSTACEA/LITER		<1	29
ZOOPLANKTON ABUNDANCE (#/L)		2	44
VASCULAR PLANT ABUNDANCE			Abundant
SECCHI DISK TRANSPARENCY (m)			2.5 Visible on bottom
BOTTOM DISSOLVED OXYGEN (mg/L)		15.4	6.5
BACTERIA (E. coli, #/100 ml)	#1		74
	#2		
	#3		

SUMMER THERMAL STRATIFICATION:

not stratified

Depth of thermocline (m): None
Hypolimnion volume (m³) : None
Anoxic volume (m³) : None

CHEMICAL:

Lake: DINSMORE POND

Town: HARRISVILLE

	13 February 1997		22 August 1996		
DEPTH (m)	1.0		1.5		
pH (units)	5.8		6.0		
A.N.C. (Alkalinity)	1.8		3.3		
NITRATE NITROGEN	< 0.05		< 0.05		
TOTAL KJELDAHL NITROGEN	0.22		0.16		
TOTAL PHOSPHORUS	0.011		0.015		
CONDUCTIVITY (μ mhos/cm)	36.6		36.3		
APPARENT COLOR (cpu)	13		14		
MAGNESIUM			0.57		
CALCIUM			1.7		
SODIUM			3.3		
POTASSIUM			< 0.40		
CHLORIDE	3		4		
SULFATE	5		4		
TN : TP	20		11		
CALCITE SATURATION INDEX			4.6		

All results in mg/L unless indicated otherwise

TROPHIC CLASSIFICATION: 1996

D.O. S.D. PLANT CHL TOTAL CLASS

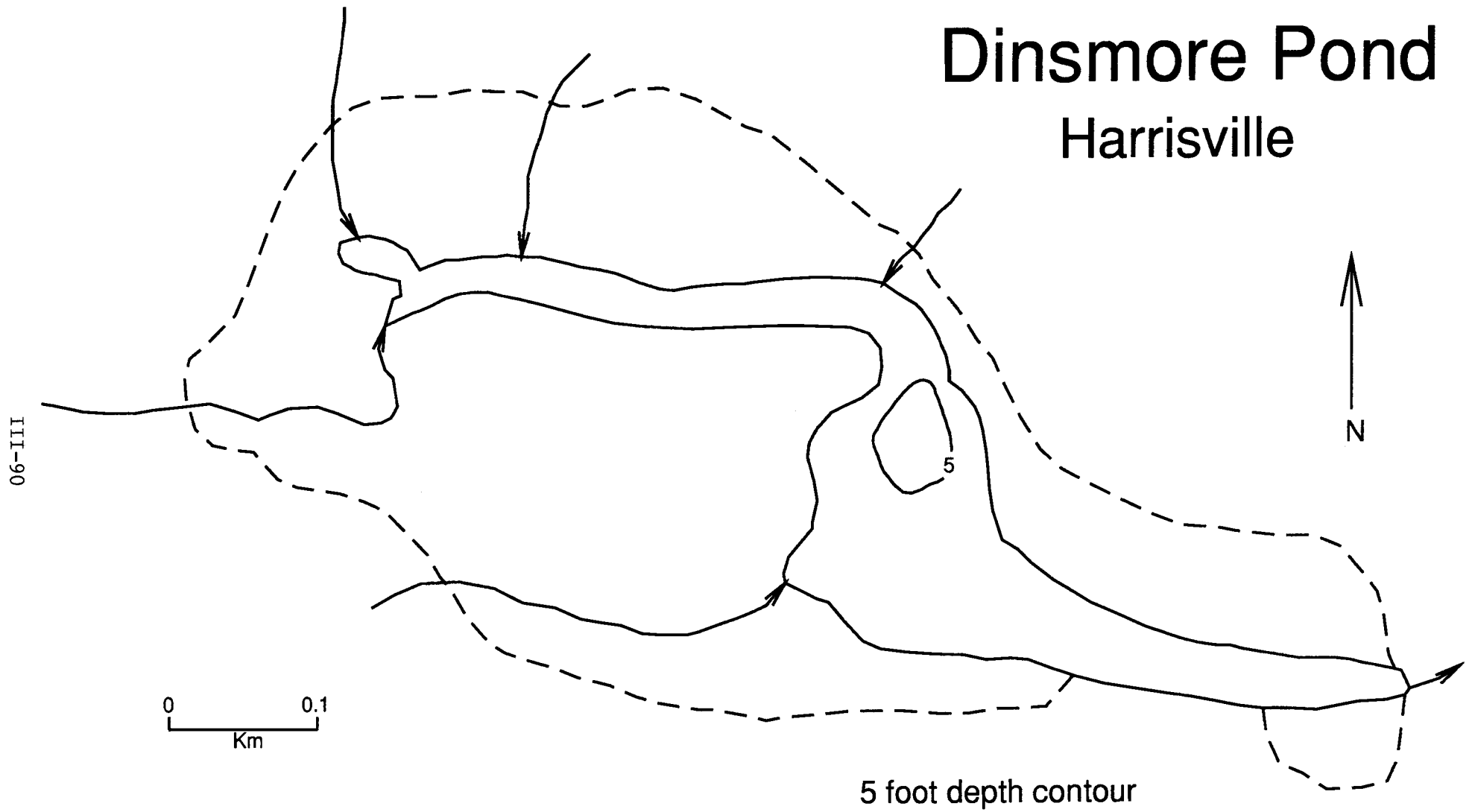
**	2	5	0	7	Meso.
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COMMENTS:

1. Dinsmore Pond is more an open-water wetland than a pond. It is essentially an area of open water in Nubanusit Brook, surrounded by wetlands. It is listed as a wetland rather than a pond in DES' Clean Lakes database.
2. The pond drains a relatively large watershed containing numerous lakes which, along with the pond's shallowness, gives the pond a very rapid flushing rate.
3. No public access. Access was attained by taking the canoe down the inlet stream and portaging over beaver dams.
4. There were no cottages or other development on the pond.
5. Phytoplankton were relatively sparse.

Dinsmore Pond

Harrisville



[illegible]

Harrisville



A horizontal line with vertical tick marks at each end. The left tick mark is labeled '0' and the right tick mark is labeled '0.1'. Below the line, centered, is the text 'Km'.

[illegible]